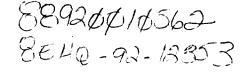
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Environmental Protection Agency
401 M Street., S.W.
Washington, D.C. 20460

Attn: Section 8(e) Coordinator (CAP Agreement)

Dear Coordinator:

8ECAP-0025

On behalf of the Regulatee and pursuant to Unit II B.1.b., Unit II B.2.a. (human effects) and Unit II C of the 6/28/91CAP Agreement, E.I. Du Pont de Nemours and Co. hereby submits (in triplicate) the attached studies. Submission of this information is voluntary and is occasioned by unilateral changes in EPA's standard as to what EPA now considers as reportable information. Regulatee's submission of information is made solely in response to the new EPA §8(e) reporting standards and is not an admission: (1) of TSCA violation or liability; (2) that Regulatee's activities with the study compounds reasonably support a conclusion of substantial health or environmental risk or (3) that the studies themselves reasonably support a conclusion of substantial health or environmental risk.

The "Reporting Guide" creates new TSCA 8(e) reporting criteria which were not previously announced by EPA in its 1978 Statement of Interpretation and Enforcement Policy, 43 Fed Reg 11110 (March 16, 1978). The "Reporting Guide states criteria which expands upon and conflicts with the 1978 Statement of Interpretation. Absent amendment of the Statement of Interpretation, the informal issuance of the "Reporting Guide" raises significant due processes issues and clouds the appropriate reporting standard by which regulated persons can assure TSCA Section 8(e) compliance.

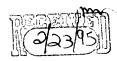
Mark H. Christman

Counsel

Legal D-7158 1007 Market Street

Wilmington, DE 19898

(302) 774-6443



Better Things for Better Living

ATTACHMENT 1

Submission of information is made under the 6/28/91 CAP Agreement, Unit II. This submission is made voluntarily and is occasioned by recent changes in EPA's TSCA §8(e) reporting standard; such changes made, for the first time in 1991 and 1992 without prior notice and in violation of Regulatee's constitutional due process rights. Regulatee's submission of information under this changed standard is not a waiver of its due process rights; an admission of TSCA violation or liability, or an admission that Regulatee's activities with the study compounds reasonably support a conclusion of substantial risk to health or to the environment. Regulatee has historically relied in good faith upon the 1978 Statement of Interpretation and Enforcement Policy criteria for determining whether study information is reportable under TSCA §8(e), 43 Fed Reg 11110 (March 16, 1978). EPA has not, to date, amended this Statement of Interpretation.

After CAP registration, EPA provided the Regulatee the June 1, 1991 "TSCA Section 8(e) Reporting Guide". This "Guide" has been further amended by EPA, EPA letter, April 10, 1992. EPA has not indicated that the "Reporting Guide" or the April 1992 amendment supersedes the 1978 Statement of Interpretation. The "Reporting Guide" and April 1992 amendment substantively lowers the Statement of Interpretation 's TSCA §8(e) reporting standard². This is particularly troublesome as the "Reporting Guide" states criteria, applied retroactively, which expands upon and conflicts with the Statement of Interpretation.³ Absent amendment of the Statement of Interpretation, the informal issuance of the "Reporting Guide" and the April 1992 amendment clouds the appropriate standard by which regulated persons must assess information for purposes of TSCA §8(e).

²In sharp contrast to the Agency's 1977 and 1978 actions to soliciting public comment on the proposed and final §8(e) Policy, EPA has unilaterally pronounced §8(e) substantive reporting criteria in the 1991 Section 8(e) Guide without public notice and comment, See 42 Fed Reg 45362 (9/9/77), "Notification of Substantial Risk under Section 8(e): Proposed Guidance".

³A comparison of the 1978 Statement of Interpretation and the 1992 "Reporting Guide" is a appended.

Throughout the CAP, EPA has mischaracterized the 1991 guidance as reflecting "longstanding" EPA policy concerning the standards by which toxicity information should be reviewed for purposes of §8(e) compliance. Regulatee recognizes that experience with the 1978 Statement of Interpretation may cause a review of its criteri. Regulatee supports and has no objection to the Agency's amending reporting criteria provided that such amendment is not applied to the regulated community in an unfair way. However, with the unilateral announcement of the CAP under the auspices of an OCM enforcement proceeding, EPA has wrought a terrific unfairness since much of the criteria EPA has espoused in the June 1991 Reporting Guide and in the Agency's April 2, 1992 amendment is new criteria which does not exist in the 1978 Statement of Interpretation and Enforcement Policy.

The following examples of new criteria contained in the "Reporting Guide" that is not contained in the <u>Statement of Interpretation</u> follow:

- o even though EPA expressly disclaims each "status report" as being preliminary evaluations that should <u>not</u> be regarded as final EPA policy or intent⁴, the "Reporting Guide" gives the "status reports" great weight as "sound and adequate basis" from which to determine mandatory reporting obligations. ("Guide" at page 20).
- o the "Reporting Guide" contains a matrix that establishes new numerical reporting "cutoff" concentrations for acute lethality information ("Guide" at p. 31). Neither this matrix nor the cutoff values therein are contained in the <u>Statement of Interpretation</u>. The regulated community was not made aware of these cutoff values prior to issuance of the "Reporting Guide" in June, 1991.
- othe "Reporting Guide" states new specific definitional criteria with which the Agency, for the first time, defines as 'distinguishable neurotoxicological effects'; such criteria/guidance not expressed in the 1978 Statement of Interpretation.⁵;
- othe "Reporting Guide" provides new review/ reporting criteria for irritation and sensitization studies; such criteria not previously found in the 1978 <u>Statement of Interpretation/Enforcement Policy</u>.
- othe "Reporting Guide" publicizes certain EPA Q/A criteria issued to the Monsanto Co. in 1989 which are not in the <u>Statement of Interpretation</u>; have never been published in the <u>Federal Register</u> or distributed by the EPA to the Regulatee. Such Q/A establishes new reporting criteria not previously found in the 1978 <u>Statement of Interpretation/Enforcement Policy</u>.

⁴The 'status reports' address the significance, if any, of particular information reported to the Agency, rather than stating EPA's interpretation of §8(e) reporting criteria. In the infrequent instances in which the status reports contain discussion of reportability, the analysis is invariably quite limited, without substantial supporting scientific or legal rationale.

⁵ See, e.g., 10/2/91 letter from Du Pont to EPA regarding the definition of 'serious and prolonged effects' as this term may relate to transient anesthetic effects observed at lethal levels; 10/1/91 letter from the American Petroleum Institute to EPA regarding clarification of the Reporting Guide criteria.

In discharging its responsibilities, an administrative agency must give the regulated community fair and adequate warning to as what constitutes noncompliance for which penalties may be assessed.

Among the myriad applications of the due process clause is the fundamental principle that statutes and regulations which purport to govern conduct must give an adequate warning of what they command or forbid.... Even a regulation which governs purely economic or commercial activities, if its violation can engender penalties, must be so framed as to provide a constitutionally adequate warning to those whose activities are governed.

Diebold, Inc. v. Marshall, 585 F.2d 1327, 1335-36 (D.C. Cir. 1978). See also, Rollins Environemntal Services (NJ) Inc. v. U.S. Environmental Protection Agency, 937 F. 2d 649 (D.C. Cir. 1991).

While neither the are rules, This principle has been applied to hold that agency 'clarification', such as the <u>Statement of Interpretation</u>, the "Reporting Guide" nor the April 1992 amendments will not applied retroactively.

...a federal court will not retroactively apply an unforeseeable interpretation of an administrative regulation to the detriment of a regulated party on the theory that the post hoc interpretation asserted by the Agency is generally consistent with the policies underlying the Agency's regulatory program, when the semantic meaning of the regulations, as previously drafted and construed by the appropriate agency, does not support the interpretation which that agency urges upon the court.

Standard Oil Co. v. Federal Energy Administration, 453 F. Supp. 203, 240 (N.D. Ohio 1978), aff'd sub nom. Standard Oil Co. v. Department of Energy, 596 F.2d 1029 (Em. App. 1978):

The 1978 Statement of Interpretation does not provide adequate notice of, and indeed conflicts with, the Agency's current position at §8(e) requires reporting of all 'positive' toxicological findings without regard to an assessment of their relevance to human health. In accordance with the statute, EPA's 1978 Statement of Interpretation requires the regulated community to use scientific judgment to evaluate the significance of toxicological findings and to determining whether they reasonably support a conclusion of a substantial risk. Part V of the Statement of Interpretation urges persons to consider "the fact or probability" of an effect's occurrence. Similarly, the 1978 Statement of Interpretation stresses that an animal study is reportable only when "it contains reliable evidence ascribing the effect to the chemical." 43 Fed Reg. at 11112. Moreover, EPA's Statement of Interpretation defines the substantiality of risk as a function of both the seriousness of the effect and the probability of its occurrence. 43 Fed Reg 11110 (1978). Earlier Agency interpretation also emphasized the "substantial" nature of a §8(e) determination. See 42 Fed Reg 45362, 45363

(1977). [Section 8(e) findings require "extraordinary exposure to a chemical substance...which critically imperil human health or the environment"].

The recently issued "Reporting Guide" and April 1992 Amendment guidance requires reporting beyond and inconsistent with that required by the <u>Statement of Interpretation</u>. Given the statute and the <u>Statement of Interpretation</u>'s explicit focus on substantial human or environmental risk, whether a substance poses a "substantial risk" of injury requires the application of scientific judgment to the available data on a case-by-case basis.

If an overall weight-of-evidence analysis indicates that this classification is unwarranted, reporting should be unnecessary under §8(e) because the available data will not "reasonably support the conclusion" that the chemical presents a <u>substantial</u> risk of serious adverse consequences to human health.

Neither the legislative history of §8(e) nor the plain meaning of the statute support EPA's recent lowering of the reporting threshold that TSCA §8(e) was intended to be a sweeping information gathering mechanism. In introducing the new version of the toxic substances legislation, Representative Eckhart included for the record discussion of the specific changes from the version of H. R. 10318 reported by the Consumer Protection and Finance Subcommittee in December 1975. One of these changes was to modify the standard for reporting under §8(e). The standard in the House version was changed from "causes or contributes to an unreasonable risk" to "causes or significantly contributes to a substantial risk". This particular change was one of several made in TSCA §8 to avoid placing an undue burden on the regulated community. The final changes to focus the scope of Section 8(e) were made in the version reported by the Conference Committee.

The word "substantial" means "considerable in importance, value, degree, amount or extent". Therefore, as generally understood, a "substantial risk" is one which will affect a considerable number of people or portion of the environment, will cause serious injury and is based on reasonably sound scientific analysis or data. Support for the interpretation can be found in a similar provision in the Consumer Product Safety Act. Section 15 of the CPSA defines a "substantial product hazard" to be:

"a product defect which because of the pattern of defect, the number of defective products distributed in commerce, the severity of the risk, or otherwise, creates a substantial risk of injury to the public." Similarly, EPA has interpreted the word 'substantial' as a quantitative measurement. Thus, a 'substantial risk' is a risk that can be quantified, See, 56 Fed Reg 32292, 32297 (7/15/91). Finally, since information pertinent to the exposure of humans or the environment to chemical substances or mixtures may be obtained by EPA through Sections 8(a) and 8(d) regardless of the degree of potential risk, §8(e) has specialized function. Consequently, information subject to §8(e) reporting should be of a type which would lead a reasonable man to conclude that some type action was required immediately to prevent injury to health or the environment.

Attachment

Comparison:

Reporting triggers found in the 1978 "Statement of Interpretation/ Enforcement Policy", 43 Fed Reg 11110 (3/16/78) and the June 1991 Section 8(e) Guide.

TEST TYPE	1978 POLICY CRITERIA EXIST?	New 1991 GUIDE CRITERIA EXIST?
ACUTE LETHALITY		
Oral Dermal Inhalation (Vapors) aerosol dusts/ particles	N} N} N} N} N}	Y} Y} Y} Y}
SKIN IRRITATION	N	Y8
SKIN SENSITIZATION (ANIMA	ALS) N	Y ⁹
EYE IRRITATION	N	Y ¹⁰
SUBCHRONIC (ORAL/DERMAL/INHALATION)) N	Y ¹¹
REPRODUCTION STUDY	N	Y ¹²
DEVELOPMENTAL TOX	Y ¹³	Y ¹⁴

⁶43 Fed Reg at 11114, comment 14:

[&]quot;This policy statements directs the reporiting of specified effects when unknown to the Administrator. Many routine tests are based on a knowledge of toxicity associated with a chemical Lunknown effects occurring during such a range test may have to be reported if they are those of concern to the Agency and if the information meets the criteria set forth in Parts V and VII."

⁷Guide at pp.22, 29-31.

⁸Guide at pp-34-36.

⁹Guide at pp-34-36.

¹⁰ Guide at pp-34-36.

¹¹Guide at pp-22; 36-37.

¹²Guide at pp-22

¹³⁴³ Fed Reg at 11112

[&]quot;Birth Defects" listed.

¹⁴Guide at pp-22

NEUROTOXICITY	N	Y ¹⁵
CARCINOGENICITY	Y ¹⁶	Y ¹⁷
MUTAGENICITY		
In Vitro In Vivo	Y} ¹⁸ Y}	Y} ¹⁹ Y}
ENVIRONMENTAL		
Bioaccumulation Bioconcentration Oct/water Part. Coeff.	Y} Y} ²⁰ Y}	N N N
Acute Fish	N	N
Acute Daphnia	N	N
Subchronic Fish	N	N
Subchronic Daphnia	N	N
Chronic Fish	N	N
AVIAN		
Acute Reproductive Reproductive	N N N	N N N

¹⁵Guide at pp-23; 33-34. ¹⁶43 Fed Reg at 11112 "Cancer" listed

¹⁷ Guide at pp-21.

1843 Fed Reg at 11112; 11115 at Comment 15

"Mutagenicity" listed/ in vivo vs invitro discussed; discussion of "Ames test".

¹⁹Guide at pp-23. ²⁰43 Fed Reg at 11112; 11115 at Comment 16.

CAS# 683-10-3

Chem: N-lauryl betaine (25% aqueous solution of sodium salt)

Title: Acute oral test; skin irritation tests on guinea pigs; primary

irritation on human subjects

Date: 6/13/63

Summary of Effects: Strong erythema - humans

Copies to: C. W. Maynard, Jr. (3) S. B. Cupp (6)

E. L. de Post de Memouts and Company

Hashell Laboratory for Toxicology and Industrial Medicine MARKEL LABORATORY REPORT NO. 69-63

Other Codes: TLF-1191-B; JLEG-1795-79 Maskall No.: 3385 M NO. 656 Material Tested: B-Lauryl Detailse (25% equatus solution of sodium salt) C. W. Meymerd, Jr., Organic Chamicals Department Jackson Laboratory Sabutted by:

LOTT GRAL TEST

Procedury: The test meterial, so an equeeus solution contribute 25% active ingredient so the sodium salt, was admin-intered by stonach tube in single dones to young adult CAR-CD male rate. Servivors were sacrificed 12-16 days later.

ALDA			7500 mg/kg	,			
Torde Sime	Lethal Pong: Sovers weight loss, diarrhes,	bloody discharge from mose and mouth at death		Prolechel Breng: Weight loss and diarries at	2400 mg/kg, increased vater intake at 5000		
Mercality	9-14	D- 14	D- 24	8 - 13 4	8 - 12 4.	8 - 14 4.	8 - 14 4.
(ad)	17,000	11,000	7500	2000	3400	2228	679
801,a 801,a	3	3	8	3	3	8	8

* Based on product as received. ** D - () d. = Pound dead () days after desing. S - () d. = Secrificad () days after desing.

Summin: TIV-1191-B, containing 25% B-lawryl betains as the soction sait, has low acute oral toxicity for the male rat, its Approximate lathel Bose (AID) being 7500 mg/kg of body weight. Large doses (5000 mg/kg and above) produced distribes in the rat, Examination of the tissues has not been completed.

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SECTS TREATMENT TESTS ON CUIMEA FICE

Method: One drop of a 10, 1 or 0.1% (a.1.) solution was applied to an area of intact shawed skin of each of 10 male albino graines pigs. Observations were made 1 day siter treatment and when possible at 2 and 5 days.

Results:

5 Deys	4 mecrosis 6 besing with desquemation	so observation	so observetion
2 Bers	2 mercels 7 severs erythms and form 1 meters erythms	no observacion	no treitation
1 Per	severe erythems and odems of akts of all animals	no teritocion	no irritation
Tot foliation	9	•	0.1

severe erythers and oders which progressed to mecrosis within 2-5 days. The IL and 0.12 solutions caused no irritation. MILY: A 16% (a.1.) solution of B-loutyl betains use a vary attent for gaines pig okin, producing initially

PATHOLY TRAININGS OF MANY STRAINS

Decladed Parch

Method: One-half fach equates of an absorbant material melecamed with 3 drops of the test solution were applied to the mine of 7 subjects, covered with cellophens and held in place by adhesive tape for 26 hours. Chemicalians were made immediately after removal of the patches and also 1-2 and/or 3-7 hours later. The maximum reactions which occurred 2-7 hours after removal of patches are used here for evaluating the irritation potential of the material.

Results:

•

Reactions Chaptred After 2-7 Bours	1 strong erythems, 4 moderate, 2 mild	S serong erythems, 1 moderate, 1 mild
7 (a.1.) Solution	9	-

Test on theovered Skin

Obser-Hethod: Between 9:00 and 10:30 A.M. one drop of a 0.13 (a.f.) solution was applied to the skin of the inner forearn of Il women and 8 men, and spread over an area of about 22 am in diameter. The area was not covered and subjects were requested to keep sleaves rolled up for rest of working day and not to wesh the area until the final observation. vacions were made as indicated.

Leon | Lo

25-30 Bours After Application

so reaction

6 Bours After Application

no reactions

PEDBACK DRITTACION AND SENCIFIZACION TEST

tape for 6 days. After a rest period of 10 days new patches were applied for the 26-hour challenge test. Observations applied to the some of 9 men and to the some or lays of 11 women, covered with callophane and held in place by adhesive Three-quarter inch squares of an absorbant meterial, moistaned with 10 drops of a 0.1% (a.i.,) solution, were were made 1, 2 and 6 days after the first application and 1 and 4 days after the final application. Method:

6 days conclamous contact there was I atrumg reaction and a day later there was a mild reaction on a second subject. Ho reactions were observed immediately after the removal of the 24-hour challenge test (Friday). Buring the next 4 days, 4 delayed reactions were noted, 1 of which was strong, 1 moderate and 2 mild. Movever, because of the nature of these There were no reactions 1 and 2 days after the faitful application, but when the patches were removed after reactions they were considered primary irritation and not emsitization. Results:

SERRETY: When M-lauryl becaims was tasted as a 10% (a.1.) and 1% (a.1.) solution under an occluded patch it produced strong to moderate irritation on 5 or 6 of the 7 ochjects tested, respectively.

under an occiuded patch is an irritant. It should be noted that the instances of irritation were observed either after 0.1% solution caused so reactions for as long as 30 hours after application. The material did not cause sensitization. Therefore, irritation would not be expected to occur at this concentration unless treated material were in very close The irritation and constituetion tests show that under certain circumstances a 0.1% (a.f.) solution applied prolonged (6 days) contact or within 24 hours after patches were zemoved. Subsequent tests on uncovered skin with a contact with the skin,

STR INCLEMENT TRATS

The treated eyes were not vached; the untreated eyes served as controls. Observations with the unaided eye under strong artificial light and also with a hand slit-lamp were made daily for 4 days and finally at 7 days after treatment. Method: 0.1 ml of the agreeme test solution was instilled into the conjunctival sac of each of 6 male albino rabbits.

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To the second se	Conjunctivae	6/6 mild to moderate inflammation	6/6 mild infimmation	2/6 wild inflammation 4/6 normal	6/6 mild to moderate inflammation	6/6 mild inflametion	1/6 very mild inflammation 5/6 normal	6/6 mild inflammation	6/6 very mild inflammation	1/6 very mild inflammation 5/6 mormal
The Character of the Character of the Party	Crist Liver buying ("14)	3/6 injected blood wessels 3/6 mild iritis	3/6 injected blood vessels 3/6 normal	6/6 normal	6/6 isjected blood wesels	all mormal	all second	6/6 injected blood vessels	2/6 injected blood weesls 4/6 memal	1/6 tajected blood vessels 5/6 mormal
	Cornea	2/6 deliness - 4/6 turbidity	2/6 deliness - 3/6 turbidity 1/6 sdid operity with vescularization	1/6 turbidity - 2/6 mild operity with vescularization 3/6 mercel	2/6 dellaces - 4/6 terbiflity	3/6 turbidity with waterlari- nation in 1 eye - 3/6 normal	3/6 moderate operaty with weeplantial and 2 open 3/6 mormal	6/6 dellance	3/6 dellaces - 3/6 tutbidity	3/6 delinees with vesculari- sacion in 1 sys - 1/6 tur- bidity with vescularization 2/6 memai
1	Days offer Tructum	-	•	•	*	•	•	=	•	•
	Solution	90			6.25			•	•	

Summery: A 10% (a.1.) solution of M-lameryl betains produced significant injury in 4 of 6 treated eyes and the 6.25% solution produced significant injury in 3 eyes. The 5% solution produced so serious injury through 4 days after treatment; the minimal vascularization socked at 7 days is the type that usually disappears. Therefore, concentrations of mded for use in commetics. F-lastyl betains above 5% cannot be reco

Date: June 13, 1963 R.M./mfs

', ': '

Agreemed by: 2013. Throng Sering netter



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

Mark H. Christman Counsel E. I. Du Pont De Nemours and Company Legal D-7010-1 1007 Market Street Wilmington, Delaware 19898

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 1 8 1995

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) a enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan

Risk Analysis Branch

Enclosure

12353A



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Triage of 8(e) Submissions

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SUB. DATE: 10/15/92 0 CHEMICAL NAME: N - auny betai			12 683-10			
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TRIAGE DATA: NON-CBI INVENTORY YES	ONGOING REVIEW YES (DROP/REFER)	RAT LOW			USE: PRODUCTI	ION:
CAS SR NO	NO (CONTINUE)	HWN HIGH				

(Indakti)

8(E)-12353A

L/H/M/L/M

ACUTE ORAL TOXICITY IN MALE RATS IS OF LOW CONCERN BASED ON AN LD50 BETWEEN 5000 AND 7500 MG/KG. DOSAGE (GAVAGE) AND MORTALITY DATA ARE AS FOLLOWS: 670 MG/KG (0/1); 2250 MG/KG (0/1); 3400 MG/KG (0/1); 5000 MG/KG (0/1); 7500 MG/KG (1/1); 11,000 MG/KG (1/1); AND 17,000 MG/KG (1/1). TOXIC SIGNS INCLUDED WEIGHT LOSS, DIARRHEA, AND BLOODY DISCHARGE FROM NOSE AND MOUTH.

ACUTE DERMAL IRRITATION IN MALE GUINEA PIGS IS OF HIGH CONCERN. DOSAGE WAS ONE DROP OF 0.1%, 1.0%, OR 10% TEST SUBSTANCE. AT 0.1% AND 1.0% THERE WAS NO IRRITATION (0/10, EACH CONCENTRATION). AT 10%, NECROSIS (2/10), SEVERE ERYTHEMA AND EDEMA (7/10), AND MODERATE ERYTHEMA (1/10) WERE OBSERVED.

ACUTE DERMAL IRRITATION IN HUMANS IS OF MEDIUM CONCERN. DOSAGE (24-HOURS) WAS 1 DROP OF 0.1% (NONOCCLUDED), AND 3 DROPS (OCCLUDED) OF 1.0% OR 10%. AT 1%, STRONG (5/7), MODERATE (1/7), AND MILD (1/7) ERYTHEMA WAS OBSERVED. AT 10%, STRONG (1/7), MODERATE (4/7), AND MILD (2/7) ERYTHEMA WAS OBSERVED. NO REACTIONS WERE OBSERVED AT 0.1% (0/11 WOMEN, 0/8 MEN).

DERMAL SENSITIZATION IN HUMANS IS OF LOW CONCERN BASED ON NO IRRITATION DURING CHALLENGE AFTER A 6-DAY, OCCLUDED EXPOSURE TO 10 DROPS OF 1% TEST SUBSTANCE APPLIED TO 8 MEN AND 11 WOMEN. A 24-HOUR CHALLENGE TEST WAS APPLIED AFTER A 10-DAY REST PERIOD. DURING THE 4 DAYS AFTER CHALLENGE, 4 DELAYED REACTION WERE NOTED, 1 STRONG, 1 MODERATE, AND 2 MILD. THESE REACTIONS WERE CONSIDERED BY THE STUDY AUTHORS TO BE EVIDENCE OF PRIMARY IRRITATION AND NOT SENSITIZATION.

EYE IRRITATION IN RABBITS IS OF MEDIUM CONCERN. DOSAGES, WITH 6 ANIMALS/DOSE, WERE 0.1 ML OF 5%, 6.26% OR 10% TEST SUBSTANCE. IRRITATION SCORES AND EYE REACTIONS IN INDIVIDUAL ANIMALS WERE NOT PROVIDED. IRRITATION WAS CHARACTERIZED BY THE STUDY AUTHORS AS NO SERIOUS INJURY AT 5%, SIGNIFICANT INJURY IN 3/6 AT 6.25%, AND SIGNIFICANT INJURY IN 4/6 AT 10%. FINDINGS AT 6.25 AND 10% INCLUDED CORNEAL DULLNESS, TURBIDITY, AND VASCULARIZATION; INJECTED BLOOD VESSELS OF THE IRIS; AND MILD TO MODERATE INFLAMMATION OF THE CONJUNCTIVAE.

8E Number and	Rank	Reason or Brief Description
N 0	Low	The chemical was tested for potential skin sensitization and 5 of 200 subjects reacted positively. The chemical has been withdrawn from commerce.
-12306 Amine 0, CAS 2647-62-5	Low	The chemical was tested for potential skin sensitization and 5 of 200 subjects reacted positively. The chemical was withdrawn from commerce.
-12309 Alrosperse 100, Mixture of CAS Nos., 45-01-0, 1338-43-8, 68966-38-1, 50-21-5	Low	In 1963 a contract laboratory evaluated the mixture as to its potential as a primary irritant, fatiguing or dermal sensitization agent. Five of 200 subjects had reactions and upon rechallenge 2/200 also had reactions. The investigator interpreted this result as demonstrating "potential" rather than "mandatory" primary irritant characteristics for the chemical.
-12353 N-lauryl betaine, CAS 683-10-3	Low	In 1963 the material was evaluated in humans for primary dermal irritation in occluded patch testing. Six of 7 subjects had strong to moderate irritant reactions of various intensities to 10% and 1% solutions; 24-hour patches of 0.1% solution showed no reactions, but after 6 days 3-4 of 20 had strong or moderate reactions. The company toxicologist recommended the chemical be dropped from consideration for cosmetic use.